Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

ER ACTION	See Form PCT/IPEA/416			
ing date (day/month/year)	Priority date (day/month/year)			
er 2003 (28.11.2003)	28 November 2002 (28.11.2002			
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n report, established by this cant according to Article 36	International Preliminary Examining			
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al Bureau) a total of	sheets, as follows:			
lon dansata a a a a a a	on amended and are the basis of this report tity (see Rule 70.16 and Section 607 of the			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) Disc 1 readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
items:				
regard to novelty, inventive	step and industrial applicability			
35(2) with regard to novelty,	inventive step or industrial applicability;			
ional application				
Date of completion of th	is report			
26 Ma	y 2004 (26.05.2004)			
Authorized officer	y 2004 (26.05.2004)			
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INTERNATIONAL PRIMARY REPORT ON PATENTABILITY

International application No.		_
	PCT/JP2003/015223	

Į	Box No. I	Basis of the report
	1. With rega	urd to the language, this report is based on the international application in the language in which it was filed, unless
	Th	is report is based on translations from the original language into the following language, ich is language of a translation furnished for the purpose of:
-		international search (under Rules 12.3 and 23.1(b))
1		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
1		. (
	ana are no	rd to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" international application as originally filed/furnished description:
1	page	as originally filed/furnished
1	page	received by this Authority on
	the c	received by this Authority onlaims:
	page	
1	page:	, as originally filed/furnished
1	pages	, as amended (together with any statement) under Article 19
	pages	received by this Authority on
1	T the di	received by this Authority on rawings:
	pages	-
	pages	, as originally filed/furnished
1	pages	received by this Authority on
	X a segu	received by this Authority on
l	Z a sequ	nence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		mendments have resulted in the cancellation of:
		the description, pages
ĺ		the claims, Nos.
		the drawings, sheets/figs
ł		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
4.	This re	sport has been established as if (come of the count
	(Rule 7	sport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (0.2(c)).
	<u></u>	he description, pages
	₩ ¹	ne claims, Nos.
	닏 '	te drawings, sneets/figs
	t	ne sequence listing (specify):
	a	ny table(s) related to sequence listing (specify):
* <i>Ij</i>		es, some or all of those sheets may be marked "superseded."
	- DOTTON A	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP03/15223

citations and explana	tions supporting such stater	ard to novelty, inventive step or industrant	rial applicability;
Statement	-		
Novelty (N)	Claims	1-4	YE
	Claims	5-7	NO NO
Inventive step (IS)	Claims	1-4	YES
	Claims	5-7	NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO NO

2. Citations and explanations (Rule 70.7)

Document 1: Cloning and Expression of Xenopus Prickle, an Orthologue of a Drosophila Planar Cell Polarity Gene, (J. B. Wallingford, et al.), Mechanisms of Development, August 2002, Vol. 116, pages 183-186 Document 2: The Balance between Isoforms of the Prickle LIM Domain Protein Is Critical for Planar Polarity in Drosophila Imaginal Discs, (D. Gubb, et al.), Genes & Development, 1999, Vol. 13, pages 2315-2317

Claims 5-7

Documents 1 and 2 describe a prickle protein of Drosophila that is highly homologous to a mammal prickle protein, and they have a common amino acid sequence. The prickle protein, therefore, of Drosophila described in documents 1 and 2 has the same amino acid sequence as the polypeptide fragment of the above claims. Accordingly, the subject matters of the above claims do not appear to be novel or to involve an inventive step in view of documents 1 and 2.

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B x No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 5-7

The polypeptide fragment of the above claims encompasses not only fragments having amino acid sequences specific to mammal prickle proteins but also fragments non-specific to them, e.g., those having an amino acid sequence in common with prickle proteins of *Drosophila*. For the latter fragments, it is not known whether they are used to create an antibody that specifically identifies mammal prickle proteins or for other uses, and so their usefulness is unknown.

Accordingly, the invention of polypeptide fragments of the above claims is not adequately supported by the specification, nor disclosed so clearly and adequately as to allow a person skilled in the art in the relevant technical field to reduce it to practice.

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International application No.

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I	Supple	menta	l Box Relating to Sequence Listing
_			f Box No. 1, item 2:
1	. Wit	h regar	rd to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed 'this report was established on the basis that of:
ł	a.		of material
ı		\boxtimes	a sequence listing
			table(s) related to the sequence listing
l	b.	form	at of material
			in written format
l		\boxtimes	in computer readable form
	c.	time	of filing/furnishing
			contained in the international application as filed
ŀ		\boxtimes	filed together with the international application in computer readable form
			furnished subsequently to this Authority for the purpose of search and/or examination
			received by this Authority as an amendment* on
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_	· K-ZI	or fur applic	lition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed nished, the required statements that the information in the subsequent or additional copies is identical to that in the ation as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	tional	comments:
			\cdot
			·
	If iten	n 4 in 1 eded".	Box No. I applies, the listing and /or table(s) related thereto, which form part of the basis of the report, may be marked .